MODELING AND SIMULATION SOFTWARE REQUIREMENTS

The requirements are broken down into two parts: First, those that are general in nature and applied to all delivered campaign capabilities and second those that are specific to each campaign.

General Requirements

General requirements include the following:
- Store products and records:
  - Product configurations,
  - Verification and Validation (V&V) suites,
  - Input (meshes and product input files)
  - Data used in development and validation,
  - V&V test suites
  - Results (V&V)
  - Product documentation (web browser accessible)
- Software quality
  - Maintained products under configuration control.
  - Include all utilities, scripts, and other software
- Verification and Validation (V&V): V&V will be completed as part of product delivery, i.e. the product will be "born-assessed." Each new product feature will, at a minimum, include:
  - A verification test and expect results
  - A validation test and expect results
  - These tests should be implemented into the V&V testing process
- Uncertainty quantification: Included in both the verification and validation.

Campaign Specific

The modeling and simulation requirements for *a specific* IPSC are as follows:
- To be added